## XII. Mercurius *a* Venere *occultatus* Maii 17. 1737. *in Obſervatorio Regio* Grenovici, *ab* J. Bevis, *M. D. obſervatus.*

| Tem. Appar. P. M. | | | |
|---|---|---|---|
| H. | M. | S. | |
| 1 | 37 | 03 | PRæcedens Limbus Veneris Meridianum tranſit, centro a Vertice 25° 46′ 35″.<br>Mercurium vero intra teleſcopium nequaquam conſpiciebam. |
| 9 | 04 | 09 | Centrum Mercurii Limbum Veneris præcedentem præcedebat 12″ Temporis. |
| | 06 | 20 | Repetit. eodem tempore præcedebat, quo prius. |
| | 28 | 00 | Mercurio Filum parallelum Micrometri decurrente, Cuſpis Veneris auſtrina ab eodem Filo reſcinditur, ☽—☿ unde Venerem Mercurium obtecturam, vel ſaltem ſtricturam colligebam; Micrometrum itaque extrahebam, quo melius inſtantem Contactum diſcernerem Tubo 24 Pedum. |
| | 43 | 04 | Mercurius haud plus diſtat a Venere quam decima vel duodecima parte Diametri Veneris: Deinde inimicæ Nubes. |
| | 51 | 10 | Venus iterum clariſſime effulget, Mercurius vero totus ſub Venere latet. Nubes jam Venerem rurſus excipiunt, ulteriorem tam rari ſpectaculi contemplationem prohibentes. |

*Maii* 18. *P. M.*

Diſtantia Meridiana Solis a Vertice 30° 04′.

1 31 53 Limbus præcedens Veneris Meridian. tranſit. Centro diſtant a Vertice 25° 57′ 15″.

Mercurium culminantem neque hac die videre licuit, cœlo licet admodum ſereno.

*N. B.* Diſtantiæ a vertice a refractionibus non purgantur.

*Vide* Fig. 2. *in* TAB.

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## XIII. *The Uſe of a new* Azimuth Compaſs *for finding the* Variation *of the* Compaſs *or* Magnetic Needle *at Sea, with greater Eaſe and Exactneſs than by any ever yet contriv'd for that Purpoſe; by Captain* Chriſtopher Middleton, F. R. S.

TO diſcover the Declination of the Magnetic Needle, or Variation of the Compaſs at Sea, with ſome tolerable Degree of Certainty and Exactneſs, is a thing of great Uſe and Importance in the Art of Navigation.

The Inſtruments and Methods hitherto uſed for this Purpoſe, (as we could eaſily demonſtrate, if it were needful) are ſubject to ſeveral Inconveniencies, Errors and Defects; to remedy which, this new *Azimuth Com-*

Fig. 1.

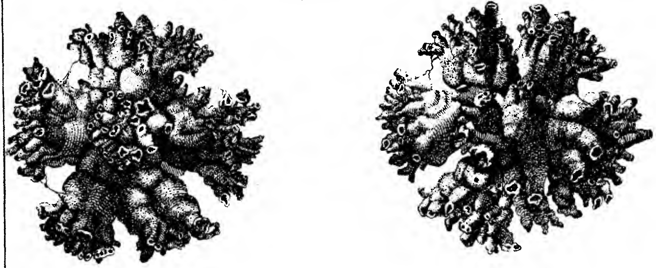


Fig. 2.

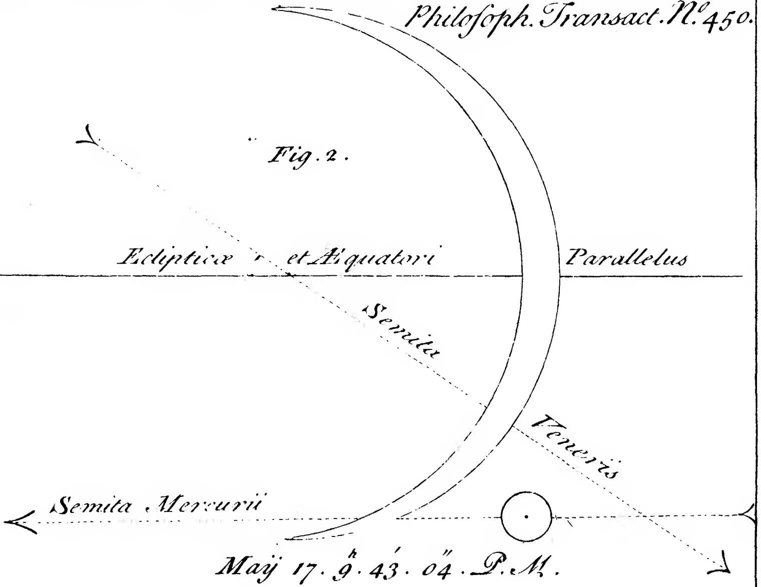


Fig. 3.

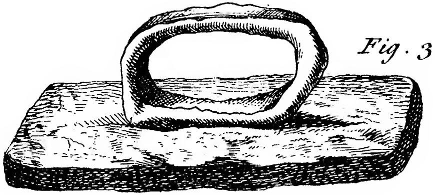
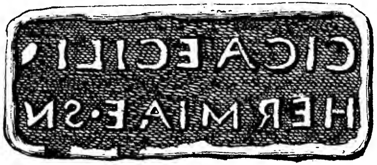


Fig. 4.



J. Mynde sc.